






<b>&gt; Mechanical characteristics</b>					
Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation
 BOX2	285 x 198 x 61	1.1 - 1.3	ABS	IP30	Wall mounted / Shelf placement
<b>Connections</b>					
- 1 power cable to be connected to the 110 / 230 V AC mains. - 1 RJ45 port 1000 Mbps. - 4 PoE/PoE+ ports 100 Mbps.					
<b>Network cable:</b> Ethernet cable Cat 5 or more / shielded or unshielded / straight or twisted					
<b>&gt; Standard-based specifications</b>					
EN 62368-1 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-3-2 A class EN 61000-6-3 / EN 61000-6-4 / EN 55032 class B / UN 38.3 / IEEE 802.3af/at Ethernet IEEE 802.3i, IEEE 802.3u, IEEE 802.3x, IEEE 802.3az (Energy Efficient Ethernet EEE)			   		
<b>&gt; Environmental specifications</b>					
<b>Temperature</b>					
Storage	-20 à +45°C				
Operating	-10 to +55°C at 100% load in normal and backup mode				
	-5 to +55°C at 100% load in battery charge mode				
<b>Humidity</b>					
Storage	relative humidity 10 to 95%				
Operating	relative humidity 20 to 95%				
<b>Altitude</b>					
Above 2,000 m, the maximum operating temperature decreases by 5% every 1,000 m					
<b>Service life</b>					
10 years at 25°C product external environment, rated mains voltage, 75% load					
<b>&gt; Electrical characteristics</b>					
<b>Network input</b>					
Voltage AC network	99 to 264 V AC				
Voltage DC network	140 to 375 V DC				
Frequency	45 to 65 Hz				
Class	Class 1				
Current	Inrush current limited by NTC				
Neutral systems	TT, TN, IT				
Protection against	primary short circuit and differential mode shock waves.				
Primary current @ 99 V AC	1.5 A				
Primary current @ 264 V AC	0.38 A				
<b>Operating output</b>					
PoE technology	IEEE 802.3 af, IEEE 802.3 at, PSE of type B				
Budget PoE max per RJ45 port	30 W				
Total PoE budget	55 W to 55 V				
Management of port priority	no				
Output (Smart Backup)	η @ 20 % loading	η @ 75 % loading	η @ 100 % loading		
	85%	91%	90%		

> Functional characteristics		
Operates in power-saving mode when the backup is charged.		
On/Off function per port.		
Filters disturbances of the electrical network.		
Without fan.		
Configurable reboot function (stops and restarts automatically) on each port.		
Indicates the % of the remaining autonomy.		
Disconnection of the backup via a pushbutton (reset).		
Smart backup		
SDC-PoE 4 is available in 2 backup packs	3D	3E
Latest generation Lithium LiFePO4 Technology (no risk of thermal runaway).		
Lead-free, cadmium-free, 100% recyclable.		
Storage: 9 months without recharging.		
10 year service life.		
Advanced management settings, cell balancing, overload and overvoltage protection.		
A push button on the board disconnects the backup via a static switch. The backup is automatically reconnected when mains voltage is present		
Protections		
Against overvoltages on primary (atmospheric or industrial causes) by varistor and filter.		
Against overvoltage on output terminals (control failure or cabling error) by disconnection and automatic restart when output voltage exceeds $U_n+10\%$		
Against overload by power limitation to $P_n+10\%$ .		
Against short-circuits on output terminals by disconnection with cyclical restart.		
Against overcurrent and short-circuits by disconnecting the PoE port at $I > I_n + 10\%$ .		
Backup duration according to output power - 55 W (TYPE 3)		
Operating power	Backup 3D	Backup 3E
	Autonomy expressed in hours and minutes	
5 W	2h31	5h01
7 W	2h	4h
10 W	1h32	3h04
15 W	1h06	2h12
20 W	0h51	1h42
25 W	0h42	1h23
30 W	0h35	1h10
35 W	0h30	1h
40 W	0h27	0h53
45 W	0h24	0h47
50 W	0h21	0h43
55 W	0h20	0h39

MMI				
LED for status display and control (UPS DC status).				
Steady green	Flashing green	Slow flashing orange	Fast flashing orange	Red
<b>Mode normal</b>	<b>ECO mode</b> <b>Stealth mode</b>	<b>Backup mode</b>	<b>Installation fault</b> - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - No mains (outside specified power supply range). <b>End of backup imminent</b>	<b>UPS to be changed</b> - If no output voltage - If power supply out of order (charger fault).  <b>Backup fault</b> - Backup undervoltage. - Backup overvoltage
LEDs to give the status of the Ethernet port activity (Link / Act)				
Steady green		Flashing green		
Connection established		- Connection established - Activity on the Ethernet link		
LED to give the status of the PoE / PoE + power supply				
Steady orange		Off		
PoE active		- PoE inactive - PoE waiting for a connection		
Communication				
1 port 1,000 Mbps makes it possible to connect the end switch to the Ethernet network (or for local diagnosis) in order to consult information remotely (product serial number, system status), to communicate analog values (voltage and load current, % of backup remaining, power status, internal temperature of the UPS DC) and to configure its settings via the on-board HTTPS webserver.				
Auto MDI/MDI-X	yes			
MAC address table	8,000 entries			
Transmission method	Store & Forward			
Intern switch capacity	650 Mbps			
Frame size and latency (max)	1 518 octets / 126 $\mu$ s			
Improved version of the micro program	Upgrade via HTTPS web browser			
Protocols supported: IPv4, HTTPS, TCP, UDP, ICMP, ARP, DHCP, SNMP V1 & V3, BACnet IP.				
> Product references				
Interpretation of the product reference designations: SDC-POE [Backup] BOX2 P4				

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